Anti-Caspase 3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015994

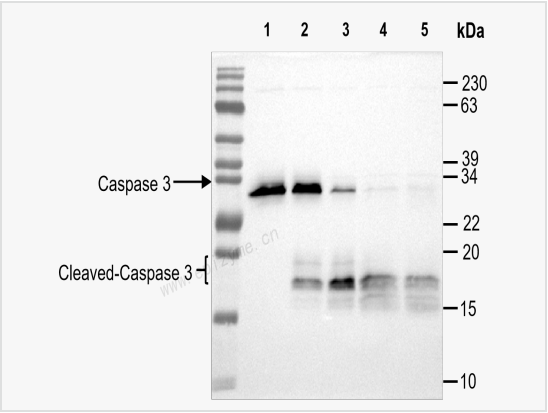
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	37I79I28
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human Caspase-3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Caspase 3 Rabbit mAb [37I79I28] is for research use only and not for use in diagnostic or therapeutic procedures.

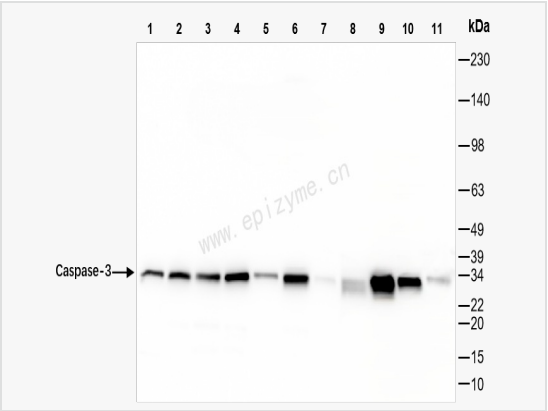
Protein Information

Synonyms	cleaved Caspase 3; cleaved Caspase-3; APOPAIN; CASP3; Caspase 3 apoptosis related cysteine protease; Caspase3; CPP32; CPP32B; Cysteine protease CPP32; Human cysteine protease CPP32 isoform alpha mRNA complete cds; PARP cleavage protease; SCA 1; SCA1; SREBP cleavage activity 1; Yama; CASP3_HUMAN; Caspase-3; CASP-3; Apopain; Protein Yama; SREBP cleavage activity 1; SCA-1.
Calculated MW	Calculated MW: 17, 32 kDa; Observed MW: 17, 32 kDa
Uniprot ID	P42574
Gene ID	836
Background	The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding proteins as well as caspases 6, 7, and 9. This protein itself is processed by caspases 8, 9, and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. [provided by RefSeq, Aug 2017]
Cellular Location	Cytoplasm
Tissue Location	Highly expressed in lung, spleen, heart, liver and kidney. Moderate levels in brain and skeletal muscle, and low in testis. Also found in many cell lines, highest expression in cells of the immune system.

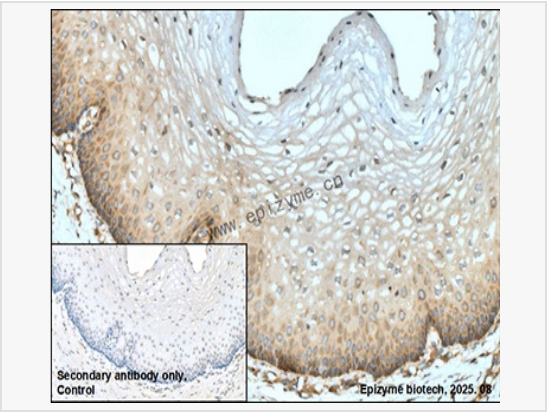
Validation Images



Western Blot - Anti-Caspase 3 Rabbit mAb [37I79I28]
All lanes: R015994 at 1:1,000 dilution
Lane 1 : Jurkat (human T-cell leukemia cell) whole cell lysates
Lane 2 : Jurkat treated with 1 µM Staurosporine for 1 h whole cell lysates
Lane 3 : Jurkat treated with 1 µM Staurosporine for 2 h whole cell lysates
Lane 4 : Jurkat treated with 1 µM Staurosporine for 3 h whole cell lysates
Lane 5 : Jurkat treated with 1 µM Staurosporine for 4 h whole cell lysates
Lysates/proteins at 30 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 17, 32 kDa
Observed band size: 17, 32 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-Caspase 3 Rabbit mAb [37I79I28]
All lanes: R015994 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates
Lane 4: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 5: PANC-1 (Human pancreatic cancer epithelial cell) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: Mouse brain whole tissue lysates
Lane 8: Mouse liver whole tissue lysates
Lane 9: Mouse embryo whole tissue lysates
Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 11: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 32 kDa
Observed band size: 32 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Caspase 3 Rabbit mAb [37I79I28]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015994 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.